Brooks McCall Data Summary
Cruise 6/23/2010

Review Date 6/24/2010

Summary:
Sampling commenced in the southwest quadrant at 0900 with slight seas and light southeast winds. Initial approval for sampling a benchmark station (visited 9 times previously) 1.2km SW of the wellhead was granted by SIMOPS, but vessels were subsequently asked to stand down due to maneuvering of the Enterprise Explorer. A 1 nautical mile exclusion zone around the relief wells was enforced as well as any sampling within 2.2 km SSW of the wellhead where the plume is expected to be concentrated. They then relocated to 5km SSW and commenced sampling to try and locate the plumes outer edge. A total of 3 CTD casts were completed at stations BM100, BM101, and BM102.

A total of 8,886 gallons of subsurface dispersant was used on 6/23/2010. The average injection rate was not provided, but was hand calculated at 6.2 gal/min. The dispersant flow was not disrupted and the total subsurface dispersant used is 501,650 gals.

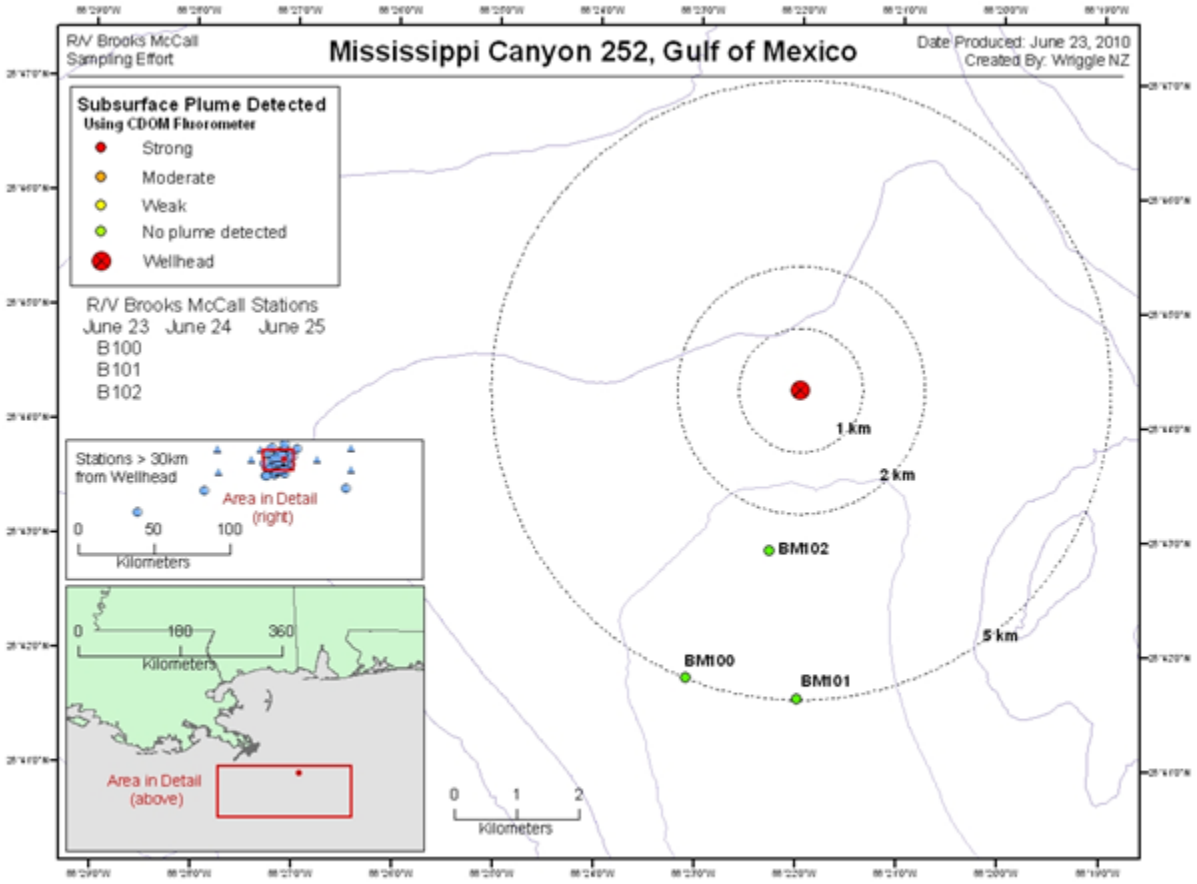

Figure 1 - Brooks McCall Sampling Stations

6006885

Science results and preliminary interpretation:
The readings at all stations (BM100, BM101, BM102) showed no appreciable fluorescence or DO signal indicative of oil. All surface waters around the stations were clear and free of oil.

Although the dispersed oil plume has recently been located predominantly to the north and west, it was predicted to swing and flow to the SSW today. It was not found between 2.7 and 5km SSW of the wellhead. This probably reflects a time lag where it takes a day or more for the plume to extend sufficiently far from the wellhead source and extend into new areas. Consequently, the oil may not have had sufficient time to reach the locations in which sampling took place.

Rototox tests were started on 23 June for samples BM100-103, with results due back on 24 June, 2010. The results will be submitted via email when they are completed.

VOC monitoring has been ongoing regularly throughout the sampling activities. No elevated VOC levels were detected during the days sampling.

LISST Data:
Water samples were collected at three stations for particle size distribution measurements using the LISST-100X particle counter. A total of 49 LISST samples were analyzed, including duplicates. The concentration of small particles was low at all depths for stations BM100 and BM101. Station BM102 at all depths, except at 2m, showed no evidence of small particles. As this had not been observed previously, a field calibration was performed. This calibration showed that the instrument was functioning properly and indicated that the data at BM102 was valid.